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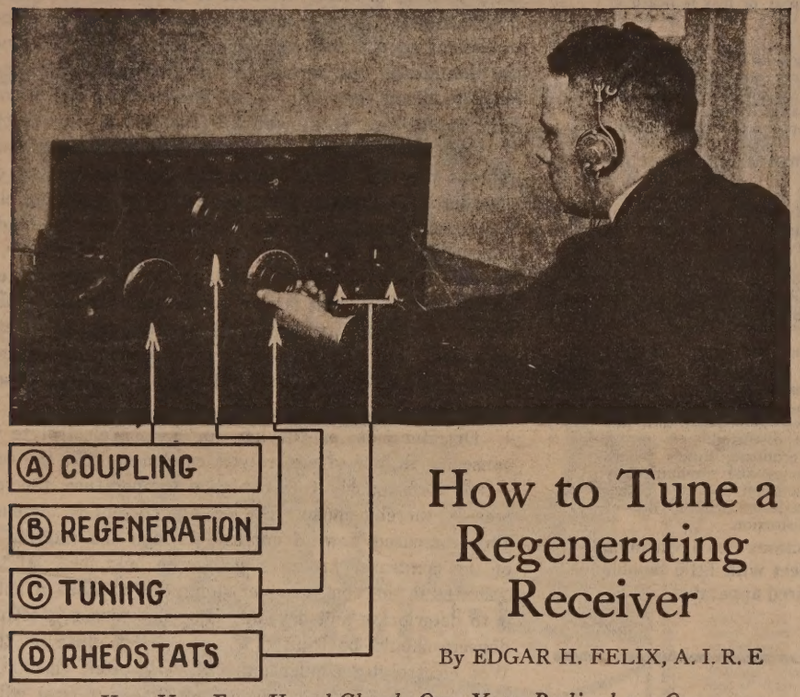
THE HORN SPEAKER

MORE AREA OF EASY TO READ CLASSIFIED ADS THAN ANY OTHER OLD RADIO PUBLICATION

POPULAR RADIO, May 1922, P. 38



How to Tune a Regenerating Receiver

By EDGAR H. FELIX, A. I. R. E

Have You Ever Heard Clearly Over Your Radiophone One Day — and Been Disgusted with the Results the Next? The Chances Are That Your Adjustments Were Faulty

THE sudden awakening of popular interest in radio telephone broadcasting and the consequent demand for receiving sets has placed thousands of delicate bits of mechanism in the hands of novices who have had no experience in adjusting them. The average novice regards the problem of adjusting his set as merely a matter of setting his controls in such a way that will enable him to hear the station he wants.

This haphazard and illogical method of tuning, although it may bring results after a fashion, robs the listener of much of the joy of receiving. Unskilled tuning results in weak signals, interference and uncertainty.

The tuning of a radio receiver is simple enough if the functioning of the few simple controls are known to the operator.

The usual regenerative vacuum tube receiver has the following controls, as illustrated in the diagram at the top of this page:

A Coupling.
B Regeneration.
C Tuning { Antenna wavelength, Secondary wavelength.
D Filament rheostats.

In some sets on the market, controls A and C are combined in a single control which adjusts the wavelength of both primary and secondary circuit. Some of the sets of the more inexpensive types are designed without a secondary circuit, with the consequent sacrifice of selectivity. However, in all cases the process of adjustment is somewhat similar.

There are three adjustments which are made before the operator attempts to receive any particular station:

First, the aerial switch is placed in the receiving position;

Second, the filaments of the tube or tubes are lit, either by means of special switches employed for the purpose or by the automatic jack, which completes the filament circuits when the plug connected with the telephone receivers is inserted in the jack.

Third, the adjustment of the filament rheostat. This is gradually turned up until a slight hiss or roar is heard in the receivers. The resistance is then turned back slightly until that noise is just inaudible.

The operator is now ready to tune his set. The control knob, marked "regeneration" or "tickler," is placed at minimum.

The first step in tuning for a particular station is to adjust for wavelength. In most of the receivers that are being sold for broadcasting there is but one adjustment for this purpose; with such sets it is merely necessary to turn slowly from minimum to maximum, stopping at any point where a desired station is heard.

Some receivers are equipped with a vernier adjustment, which provides fine graduations of the main wavelength adjustment. With a set so equipped (after the rough tuning has been made in the manner just described), the signal is more accurately tuned by means of the vernier adjustment.

For receivers that have separate controls for the primary and secondary circuits, the tuning process is slightly modified. In this case to tune in correctly a particular signal both primary and secondary circuits must be adjusted to the wavelength of the desired incoming signal.

A rough adjustment of the primary circuit is first made. If the operator has no knowledge whatever of the approximate adjustment for any particular wavelength, he adjusts the primary circuit to one third or one half its maximum value. If the coupling between the primary and secondary circuits is adjustable, it is placed at maximum during the first step of the tuning process. By maximum is meant that position in which the secondary windings are closest to or parallel with the primary windings.

The wavelength of the secondary circuit is then made in the same manner as first described for the primary adjustment of the single control receiver. When the desired signal is then properly tuned in on the secondary circuit, a re-adjustment of the primary circuit is made until the point at which the signal is heard with maximum loudness is found. In some cases, a slight re-adjustment of the secondary circuit is again advisable with the result that the signal is heard with greatly increased strength.

The advantage of separate controls for

primary and secondary tuning and the mutual coupling between those two circuits lies in its selectivity. If adjustments have been completed as described, and an interfering station starts in sending, it is merely necessary to decrease the coupling between primary and secondary circuits and then to re-tune the primary and secondary circuits again. Almost invariably it is possible to find a position of coupling in which the desired station is heard and the interfering station eliminated.

Once the correct adjustment for wavelength has been made, it is a simple matter to adjust the "regeneration," "tickler" or "feedback" control. This is done by slowly turning the control knob from the minimum position toward the maximum. At first this action may not produce any perceptible result; then there will be a sudden and surprising increase in signal strength. But if you increase regeneration too much, the quality of the received signals becomes distorted. At first only the high notes are affected. If the adjustment is turned still further to maximum, the music becomes completely distorted and its tonal qualities are destroyed.

It is desirable to sacrifice signal strength in order to obtain full advantage of the purity and perfect tonal qualities of radio telephone music. The temptation is to obtain the loudest possible signal at the receiver, but the discriminating operator knows he is not striving to receive the maximum noise but the most enjoyable and most faithful reproduction of the music that is being sent out.

As a measure of economy, minimum filament brilliancy consistent with the reception of the desired signals at audible strength should be employed. When receiving music with the regeneration adjusted to its point, a reduction of filament brilliancy at once causes a cessation of regeneration. But, by increasing the degree of regeneration, the reduction in filament brilliancy can be compensated for up to the point at which regeneration is at a maximum. It is usually unnecessary to burn tubes at white heat and it is very disastrous to their long life. Consequently maximum filament brilliancy should be avoided if regeneration takes place at lower filament temperatures.

The process of tuning a regenerative receiver may be summarized as follows:

(1) *How to Make Preliminary Adjustment*:

a. Turn the antenna switch to the receiving position.
b. Light the filaments by turning on the filament switch or inserting the plug into the jack which completes those circuits.
c. Adjust filament brilliancy to the highest point at which no roar or hiss is heard in receivers.

(2) *How to Tune:*

(In the case of single circuit receivers and single control receivers):

a. Adjust the main wavelength switch until the desired signal is heard.
b. Adjust the vernier, in the case of two circuit receivers:
a. Make an approximate adjustment of the primary circuit.
b. Carefully tune the secondary circuit until the desired signal is heard, with the coupling at the miximum.
c. Retune the primary circuit.
d. Make the final slight adjustment of the secondary circuit.
e. In case of interference, change the coupling and retune the primary and secondary circuits.

(3) *How to Adjust the Regeneration*:

a. Gradually increase the degree of regeneration from its minimum position until a sudden increase in amplification is heard; continue very slowly to increase until the note begins to be distorted.
b. For purposes of economy, slowly reduce the filament brilliancy and simultaneously increase the regeneration until the regeneration is at a maximum without loss of amplification or distortion.

With these instructions clearly in mind the novice should meet with little trouble with his newly acquired apparatus.

Service Bench

22-36. Causes of Breakdown of Electrolytic Condensers. —Since the dielectric in an electrolytic condenser is very thin—about an atom deep in some cases—more than rated voltage cannot be applied without endangering the life of the condenser. Electrolytic condensers undergo a process known as *forming*, during which the condenser is connected to a source of direct voltage for a period of time: the longer the time of forming, the lower the capacity per unit area and the higher the voltage rating. Thus, for every size and rating of condenser there is an optimum forming time.

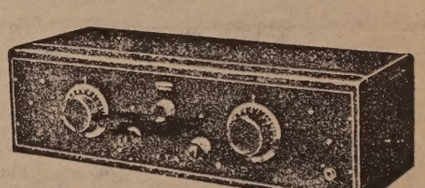
If the voltage applied to the condenser in service exceeds its safe working voltage rating, the dielectric breaks down, the film of aluminum oxide disappears, and the condenser conducts current in both directions with equal facility. This means a high leakage current—so high in fact that the condenser is valueless. It is possible in some instances to re-form the condenser, starting with a low voltage, until the film is replaced, although this expedient cannot be relied upon for satisfactory service. It is for this reason that the leakage test previously described is used; leakage affects the ability of the condenser to hold a charge, and high leakage currents mean low charge-holding ability.

These characteristics of electrolytic condensers indicate the reasons why the simple charge and discharge method cannot be used for testing them. The leakage in even a normal electrolytic condenser is so great that the condenser is unable to hold a charge long enough for the test to be completed. Moreover, it is not possible to apply high a-c voltages to this type of condenser, as the reverse current is sure to de-form the anode plate (connected to the positive terminal) and increase the leakage considerably. Any test of an electrolytic condenser must involve the use of unidirectional (d-c) voltage of the rated value for the condenser.

Deterioration, or "drying up," of the electrolyte is another cause for failure of electrolytic condensers. If the unit is subjected continuously to too high a temperature, the leakage increases, thereby causing the leakage current to increase greatly. This increased flow of current through the internal resistance of the condenser produces still more heat, etc. If the unit is operated in this condition very long, this cumulative action causes it to deteriorate and dry out. For this reason, electrolytic condensers should be located at the coolest place on the chassis. Wet electrolytic condensers will very often check O.K. when cold, but when voltage is applied, defective ones will heat up, and place a heavy load on the power transformer.

Crosley One Tube Model 50, $14.50
With tube and Crosley Phones $22.25

Crosley Three Tube Model 52, $30.00
With tubes and Crosley Phones $45.75



Crosley Trirdyn Regular, $65.00
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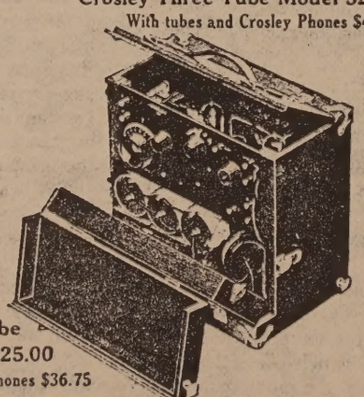
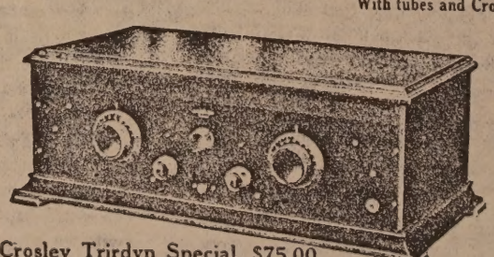
Crosley Two Tube Model 51, $18.50
With tubes and Crosley Phones $30.25



Crosley Two Tube
Model 51-P, $25.00
With tubes and Crosley Phones $36.75



Crosley Trirdyn Special, $75 00
With tubes and Crosley Phones $90.75

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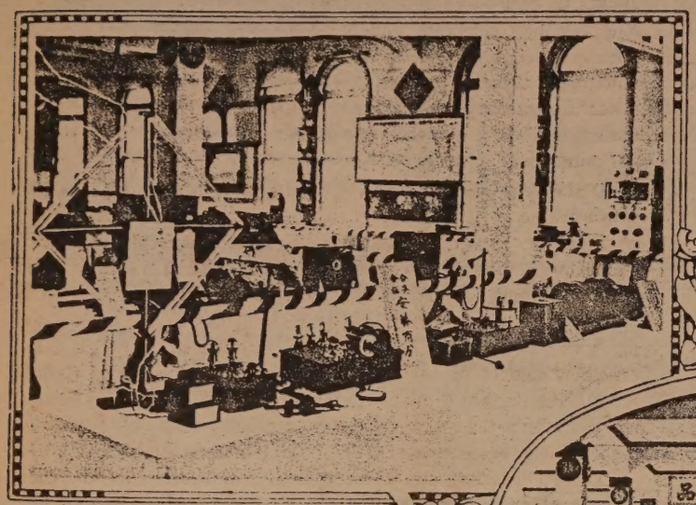
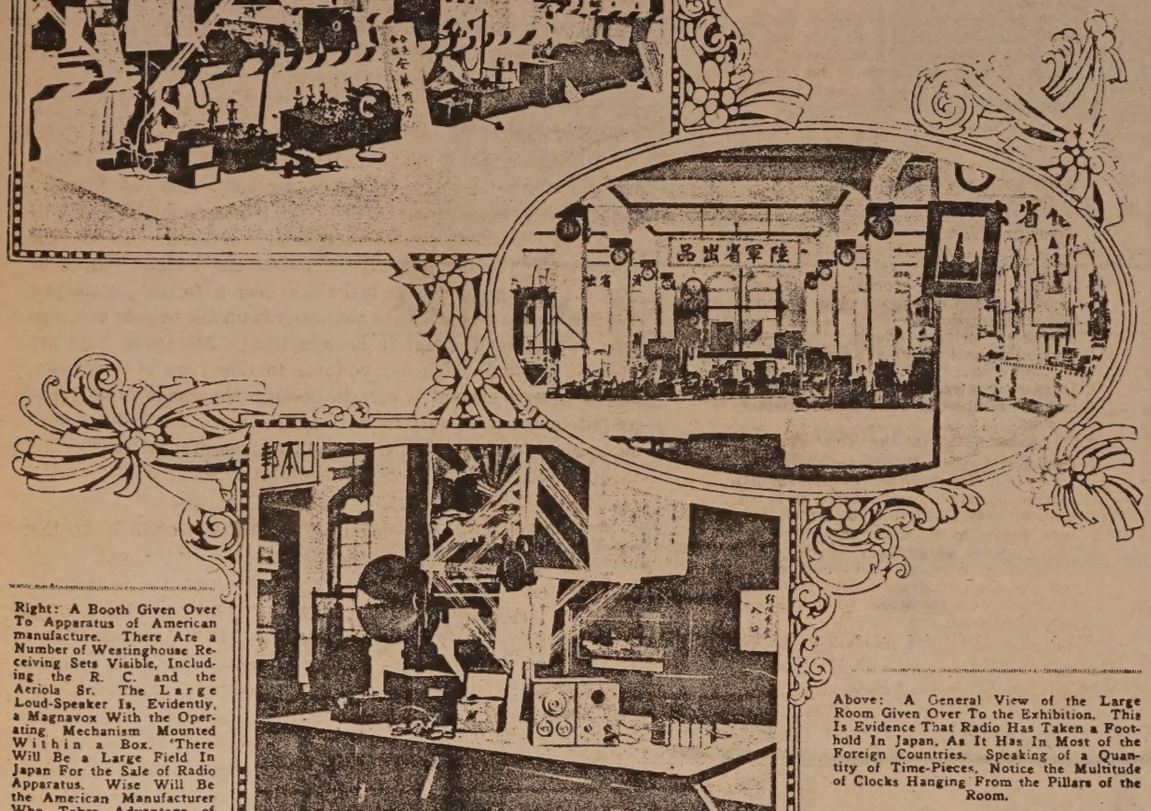
Radio News for September, 1923

Radio Exhibition In Tokio



Left: A Section of the Recent Radio Exhibition Held In Tokio, Japan. This Includes Apparatus of French and German Manufacture, Among Which Are a Number of Radio and Audio Frequency Amplifier Units. These Run Far From Our Line of Design. Their Practice Is Usually To Place the Vacuum Tubes On the Outside of the Cabinets. Note the Large Loop Aerial At the Left of the Photo.



Right: A Booth Given Over To Apparatus of American manufacture. There Are a Number of Westinghouse Receiving Sets Visible, Including the R. C. and the Aeriola Sr. The Large Loud-Speaker Is, Evidently, a Magnavox With the Operating Mechanism Mounted Within a Box. There Will Be a Large Field In Japan For the Sale of Radio Apparatus. Wise Will Be the American Manufacturer Who Takes Advantage of This Opportunity.

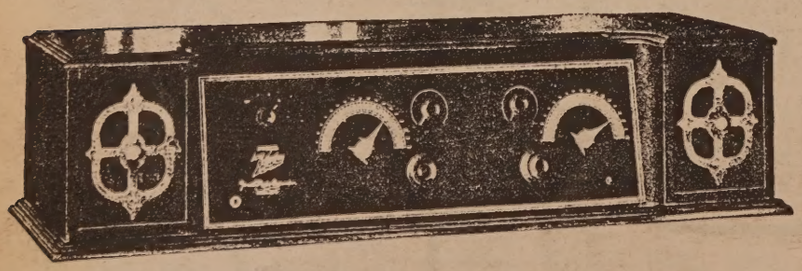
Above: A General View of the Large Room Given Over To the Exhibition. This Is Evidence That Radio Has Taken a Foothold In Japan, As It Has In Most of the Foreign Countries. Speaking of a Quantity of Time-Pieces. Notice the Multitude of Clocks Hanging From the Pillars of the Room.

THE first exhibition of radio telegraphy and telephony was held at the Industrial Institute of Tokio municipality for ten days commencing April 15. The exhibition was opened to the public on April 16, after due ceremony before a distinguished gathering. President Inouye delivered the opening address and then congratulatory messages were read by Governor Usami, of Tokio Prefecture, and Mr. Hayazaki, Assistant Director of the Industrial Institute. A brief report concerning the exhibition was given by Mr. Kajima, General Manager. All of these messages were transmitted through loud-speakers to the main assembly room, where 500 guests were present, by means of a wire from an adjoining room. Among the participants in the exhibition, there were the Department of Communications, Army and Navy, Tokio Electric Bureau, Waseda University and 52 other representative concerns, both public and private. There were, altogether, more than 2,000 exhibits including radio apparatus of both foreign and domestic makes.

Among the principal features of the exhibit were the simultaneous sending and receiving radiophone set and static avoiding device, with a loop antenna and portable V. T. radio set, power tubes of various designs, loud-speakers from the Tokio Electric Tramway and Light Bureau, airplane transmitters and receivers from the Military Aviation School, and vacuum tubes from the Tokio Electric Company, which is closely connected with the General Electric Company of the United States. Quite a number of instruments of American manufacture were exhibited, including Magnavox loud-speakers Westinghouse receiving sets and Radio Corporation vacuum tubes. Substantial proceeds were obtained from the exhibition on the sale of apparatus. From 3,500 to 4,000 visitors attended each day.

Through the efforts of the Kokumin and Hochi, two leading daily newspapers in Tokio, April 12 was observed as "Radio Day." In the evening of the same day a meeting was held at Hibiya Park, at which lectures on radio were given, followed by a motion-picture show, which drew an enthusiastic crowd of more than 30,000 people. The band from Toyama Military School rendered Madame Butterfly and other selections. Engineer Sayogi, of the Department of Communications, gave an instructive lecture on The Science of Radio Telegraphy and Telephony, which was followed by interesting motion-picture films, illustrating the theoretical side of the science as well as practical operations in the big wireless stations of the world. These films were collected by Mr. Hajima during his recent trip abroad.

The entire exhibition proved to be a great success in every respect, as it aroused the keen interest of the public in radio and its practical operations. As a result of the exhibition, preparations were made for the broadcasting of music and lectures by radio, this being effective in Japan in July.



Super-Zenith VII (Not regenerative)—6 tubes—2 stages tuned frequency amplification—detector and 3 stages audio frequency amplification. Installed in a beautifully finished cabinet of solid mahogany—44¾ inches long, 16¾ inches wide, 10¾ inches high. Door panels inlaid. Slanting panel of sheet bronze, mahogany finish, with scales and indicators in metallic relief. Gold plated pointers, to prevent tarnish. Compartments at either end for dry batteries.

December, 1924

The first monthly issue of *QST* was published in 1915 by ARRL Founder Hiram Percy Maxim and *QST* Editor Clarence D. Tuska.

ANTIQUE RADIO COLLECTORS AND HISTORIANS TO HOLD INTERNATIONAL CONVENTION — The Antique Radio Club of America (ARCA) will hold an international convention at Niagara Falls, New York, during June 5 - 8, 1985.

The Club has about 1,000 members who collect and restore antique wireless and radio equipment and who study and record the history of early radio. Antique radio buffs now collect all types of equipment from wireless equipment before World War I to sets of the forties and fifties.

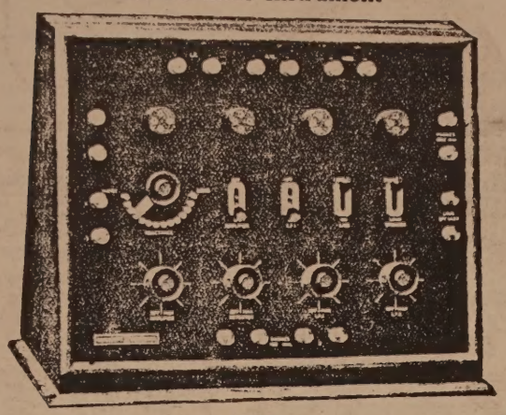
Information on the convention and information on ARCA membership can be obtained by writing to NFWA, PO Box 68, Central Park Station, Buffalo, NY 14215. —— J. L. Troe, president.

English, 1924

The BURNDEPT Ultra IV Receiver

(Mark II)

A De Luxe Instrument



104 S

Size, 18½ × 15 in. high.

The BURNDEPT Ultra IV comprises 1 Radio-frequency Valve, 1 Detector, 1 Note Magnifier and 1 Power Valve. Each valve is separately switched so that any combination of valves can be used as desired; for instance, it is possible to use the Power Valve directly following the Detector when very close to a powerful station.

In this new model, BURNDEPT IV, the fourth valve is arranged to operate as a POWER AMPLIFIER and is therefore supplied from a second H.T. battery for which terminals are provided. This fourth valve must *not* be of the usual "R" Type, which has unsuitable characteristics for Power Amplification, but must be Type "L.S. 5"; this latter valve is quite expensive, but it is so superior in the volume and quality to any other that it is most highly recommended—this valve does not require more than 120 volts H.T., but may be operated up to 180 volts if desired. Special means are adopted to secure a correct and automatic negative bias on the grid of the Power Valve. The volume of sound given by this instrument is truly extraordinary, and suffices in many cases for public demonstrations in quite large halls.

Secondly, provision is made for one or two pairs of 120-ohm telephones, and special Loud Speaker terminals are provided, together with a switch to instantly change reception from telephones to Loud Speaker or vice versa. The Loud Speaker terminals are fitted with a special device to reduce distortion and unpleasant overtones so often experienced in Loud Speaker reception, and it is therefore necessary that only 120-ohm Loud Speakers be used.

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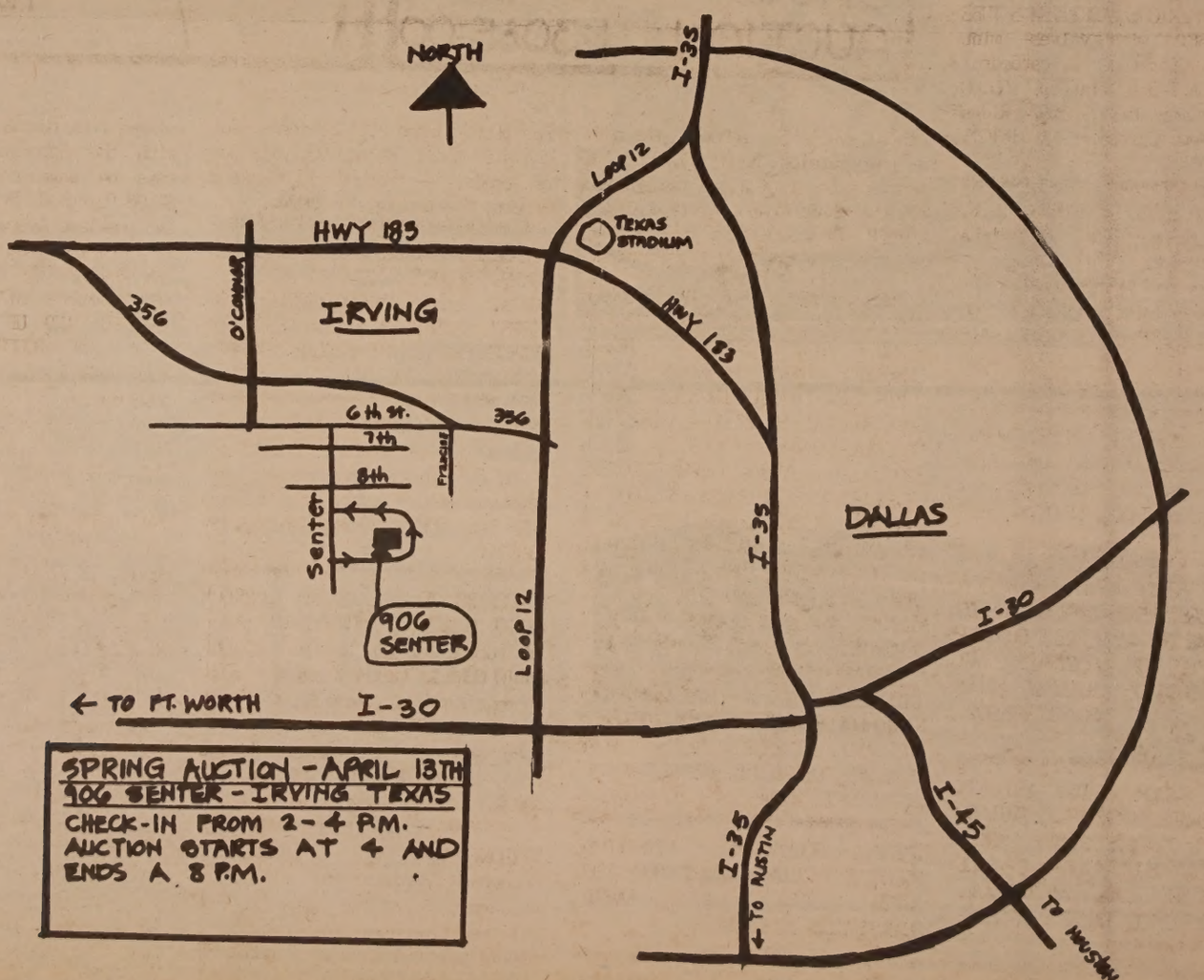

SPRING AUCTION - APRIL 13TH
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AUCTION STARTS AT 4 AND ENDS A 8 P.M.

flea market

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TAYLORVISION - Illustrated monograph depicts one inventor's endeavors to combine technology of different decades to create a hybrid television system utilizing scanning discs and all solid-state circuitry. Demonstration T.V. images from the 1920's can be seen with the apparatus described in this 64 page softbound edition - $4.98 Postpaid. Dr. E. E. Taylor, 245 Oakland Avenue, Indianapolis, IN 46201 (317) 638-1641.

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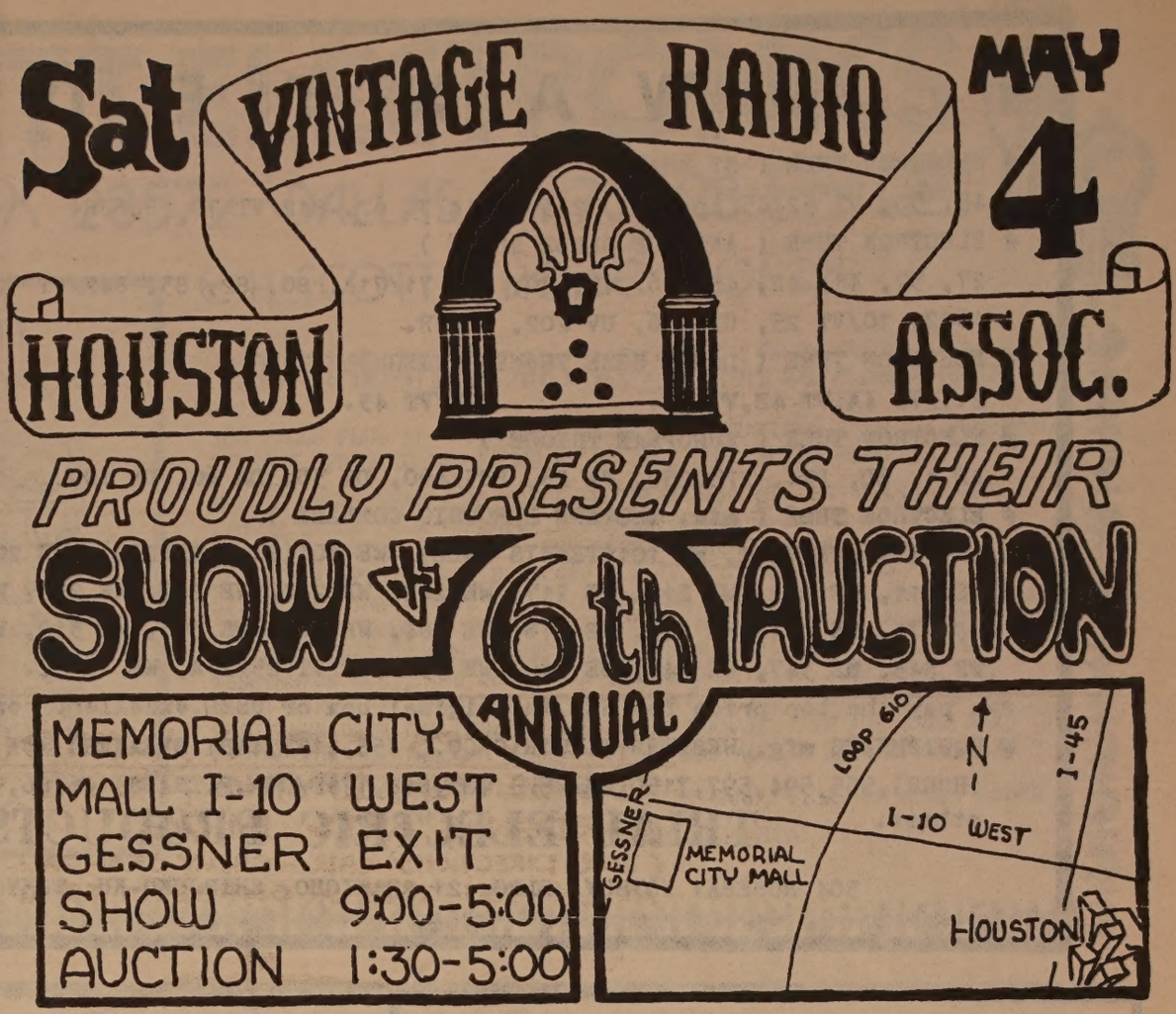

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HALLICRAFTER'S - S-120 - ALSO S-119 Small THREE BAND SKY BUDDY, RCA MOTEL RADIOS, METAL CABINET SIX TUBE BC AND SW $60.00 EACH - RCA SEVEN-BAND PORTABLE 7BX10 $110.00 (COST $250 NEW).- EVERYTHING WORKS -6E5, 6K7, 1L6, NEW TUBES: NEW THORDARSON FLYBACK'S (1 THRU 176) YOKES Y-105, Y88, Y130-Y94 MOTOROLA'S, SHARP'S 110o $15 EACH. POSTPAID — DONALD ALDRED, 39 EAST EIGHTH STREET, JACKSONVILLE, FL 32206.

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(2) RADIOLA 26 $225, $100, Radiola 25 w/loop, VG cabinet, needs rewiring $90, Radiola 20 rough $35.00, Radiola 24, fair $100, Radiola 16 good $85, RC vg $140, Radiola II G, no lid $160, Audiola EX needs audio $50, Homebrew, ——— audios, det., w/audion $130, AK 4 tube breadboard (tuner type) $385, Bob Avery, 3712 Glorieta NE, Albuquerque, NM 87111.

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SALE: QUALITY HARD COVER REPRINT OF "HIGH FREQUENCY APPARATUS" by T. S. Curtis, 269 pages plus appendix of 42 page 1920 catalog. $15.95 postpaid, guaranteed. Tesla Coil Builders Association, R3 B181, Glens Falls, NY 12801.

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FOR SALE: ENTIRE REMAINDER OF MY 15 YEAR COLLECTION. RADIOS, SPEAKERS, PHONOGRAPHS, CYLINDER RECORDS, MICROPHONES, TUBES, SCIENTIFIC ITEMS, PARTS, BOOKS, EARLY FRAMED LITERATURE, ETC. ALL ITEMS CHOICE, SOME RARE. WILL SELL ALL OR INDIVIDUAL ITEMS. SEND S.A.S.E. FOR LIST. RICHARD CANE, 8391 N.W. 21ST STREET, SUNRISE, FL 33322. (305) 741-6838.

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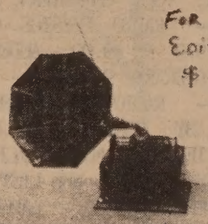

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FOR SALE: TUBES, PARTS, SCHEMATICS, custom power supplies. SASE for list to: Los Locos, 1201-74 Monument Blvd., Concord, CA 94520.

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FOR SALE- ALL UNTESTED, PICK UP ONLY, WILL NOT SHIP. SCOTT LABS. CHICAGO 800-B CHASSIS AND POWER UNIT, NO SPEAKERS $75.00, E.H

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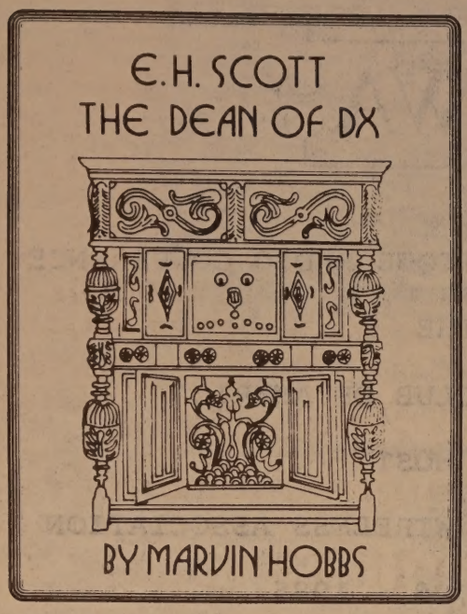

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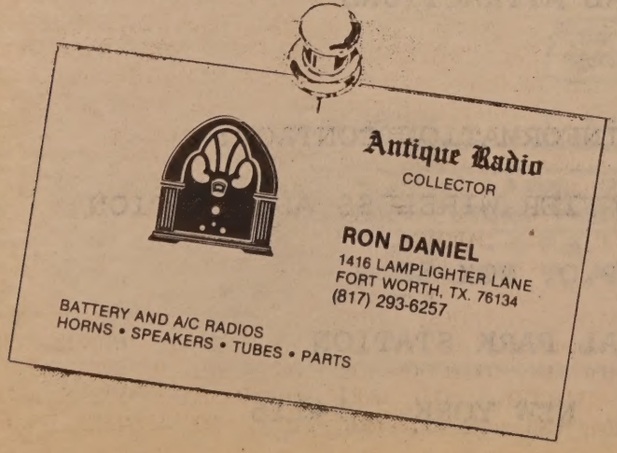

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SOCIAL EVENTS

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HOUSTON VINTAGE RADIO ASSOCIATION proudly presents their Show and 6th Annual Auction on May 4, 1985, Saturday. at Memorial City Mall, I-10 West Gessner Exit. Show 9:00 -5:00 — Auction 1:30-5:00. For more information, write; John W. Wehring, publicity chairman, 2220 E. Westcreek, 72E, Houston, TX 77027.

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ALL OF THOSE AT THE ANTIQUE WIRELESS ASSOCIATION are looking forward to several meets this year including one in July at the Lauren Peckham Museum in Breesport. A.W.A. has several new displays including the original version of the Fleming valve in gallows mounting made in 1905. Lauren Peckham's address is: Ormiston Road, Breesport, NY 14816.

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VINTAGE RADIO AND PHONOGRAPH SOCIETY, an organization that is famous for its yearly conventions in the Dallas area. Also it publishes a journal approximately six times a year. Both phonograph and radio collectors are invited to join this society from all over the country. Dues are $13.50 a year. Write: Vintage Radio and

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FOR MORE INFORMATION CONTACT:

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P.O. BOX 68

CENTRAL PARK STATION

BUFFALO, NEW YORK 14215

Phonograph society, P. O. Box 165345, Irving, TX 75016. It is reported that Dallas VRPS Spring Auction will be held on Saturday, April 13.

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INDIANA HISTORICAL RADIO SOCIETY, 245 N. Oakland Avenue, Indianapolis, IN 46201.

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THE ANTIQUE RADIO CLUB OF ILLINOIS, one of the clubs that conducts large meets of national prominence in the Chicago area. For more information contact: Joe Willis, P. O. 14732, Chicago, Il 60614.

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WELCOME TO SEND IN AN AD ABOUT YOUR CLUB.

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NORTHWEST VINTAGE RADIO SOCIETY — Annual dues $12.50. monthly newsletter, THE CALL LETTER and monthly meetings. Write: Ed Charman, Northwest Vintage Radio Society, P. O. box 02379, Portland, OR 97202.

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ARIZONA ANTIQUE RADIO CLUB, a lately formed club that publishes RADIO NEWS, a quarterly bulletin with informative articles and ads. Annual dues are: $10.00 for a year. Write: Lee Sharpe, treasurer, Arizona Antique Radio Club, 2224 W. Desert Cove #205, Phoenix, AZ 85029.

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CALIFORNIA HISTORICAL RADIO SOCIETY is a popular group that publishes a journal six times a year and provides swap meets four times a year for its members. CHRS, P. O. Box 1147, Mountain View, CA 94042-1147.

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***** IMPORTANT ANNOUNCEMENT *****RADIOFEST '85 IS MOVING TO FABULOUS CLOCK TOWER INN IN ROCKFORD, ILLINOIS. Easy access I-90 to Business Route 20 Exit. For reservations outside Illinois 1-800-358-7666. Illinois residents 1-815-398-6000. Date of convention: August 9-10, 1985. For more information write: Joe Willis, P. O. box 14732, Chicago, Illinois, 60614.

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SEND IN YOUR CLUB NEWS — EARLY

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ANTIQUE RADIO COLLECTORS AND HISTORIANS TO HOLD INTERNATIONAL CONVENTION — The Antique Radio Club of America (ARCA) will hold an international convention at Niagara Falls, New York, during June 5 - 8, 1985.

The Club has about 1,000 members who collect and restore antique wireless and radio equipment and who study and record the history of early radio. Antique radio buffs now collect all types of equipment from wireless equipment before World War I to sets of the forties and fifties.

Once a year the Club has a national convention sponsored by a local or regional group of collectors. This year the Niagara Frontier Wireless Association of Buffalo will be the sponsor.

Many visitors from Canada and overseas are expected to attend this first ARCA international gathering.

During the convention, there will be speakers, tours of radio collections and tours of the Niagara area. Highlight of the convention will be a massive flea market where radio collectors will swap and sell sets, parts, tubes and associated literature. Many will be looking for that missing tube or part necessary to finish the restoration of a favorite set. There will also be a large auction of radios and associated items.

The recreational and vacation opportunities in the Niagara Falls area, provide endless opportunity for those members of the collectors' family whose interests do not include "old radios."

Information on the convention and information on ARCA membership can be obtained by writing to NFWA, PO Box 68, Central Park Station, Buffalo, NY 14215. —— J. L. Troe, president.

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SPRING AUCTION - April 13th, 906 Senter, Irving, Texas, Garden and Arts Building, For direction call: Chevy Crandall, at (214) 337-2823 or George Potter at (214) 436-3944.

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ANNOUNCEMENT February 1985

Dear Collector Friend:

The 1985 ADD-A-PAGE catalog will offer not only a reprint of Antique Radio Corner, radios, parts, books and tubes for sale, but will also include a swap and sell section open to all subcribers. For the subscription price of $5.00, you will receive 6 issues of the ADD-A-PAGE catalog sent by FIRST CLASS mail and can place a swap and sell ad of 30 words in each issue.

If you have not already renewed please use the subscription form below. Also send us your swap or sell ad for the next edition.

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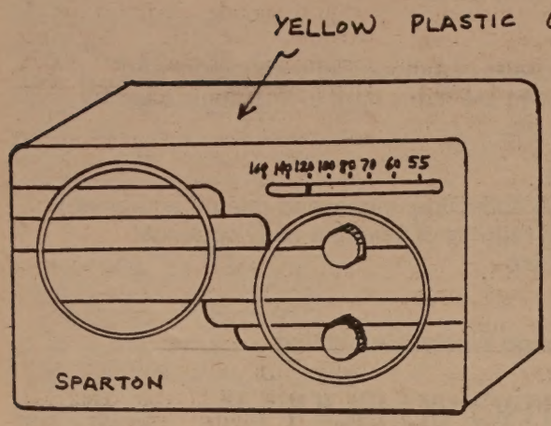


BLUE (GLASS-LIKE) FRONT - CHROME DESIGN

WANTED: SPARTON MODEL 500 AS PICTURED, SMALL TABLE RADIO WITH RED OR BLUE GLASS- LIKE FRONT AND YELLOW PLASTIC CASE. KRIS GIMMY, 1441 NOTTINGHAM DRIVE, AIKEN, SC 29801 (803) 649-9795.

WANTED: PHILCO 37-60 CABINET. Will buy junkers to get restorable cabinet. Write Howard Granoff, 2445 Lyttonsville Road, Silver Spring, MD 20910. (301) 585-8776.

WANTED CHASSIS FOR AK 90 OR 80. Cabinet for Philco 118. Vaughn Rudisill, 45 Lehigh Lane, Hicksville, NY 11801. (516) 681-4642.

WANTED: RCA PRERECORDED classical open reel tapes, 2 track stereo and 4 track quadraphonic. Write with list or request my want list. Carleton Sarver, 256 West 88th Street, New York, NY 10024. (212) 874-3529.

WANTED: RADIO NEWS (1925 - 26) article on building one tuber using three circuit tuner. Ed Lindberg, W2CIL, Bowmansville, NY 14026.

I WANT SOME UX-216 TUBES, ATWATER KENT MODEL - 36 IN EXCELLENT, ORIGINAL CONDITION, PRE- 1890 LIGHT BULBS THAT STILL BURN. I AM SELLING EDISON PHONOGRAPHS, MODEL - K EDISON REPRODUCERS, ORIGIONALS: $100 EACH. EXCELLENT REPRODUCTIONS, $65.00 EACH. - J. R. WILKINS, BOX 3442, ARLINGTON, TX 76010 OR (214) 298-5587.

WANTED: MANUFACTURING SERVICES FOR VINTAGE TV SCANNING DISCS. DISC MATERIAL SHOULD BE ALUMINUM ALLOY AT A THICKNESS OF NO MORE THAN 1/30" WITH A CERTAIN DEGREE OF FLEXABILITY IN ORDER TO RUN DEAD-TRUE AT HIGH RPM. VINTAGE TV BUFFS WELCOMED. D'ARCY BROWNRIGG, P. O. BOX 292, CHELSEA, QUEBEC, CANADA, JOX 1NO.

FOR SALE— RADIOLA VIII cabinet. FC $18.00, Set of Beitman manuals, RADIO 1926- 1950 plus 1948 TV, 11 manuals, $50.00 postpaid. Mark Oppat, 31800 Balmoral Drive, Livonia, MI 48154.

COPY OF ANY INFORMATION ON A WWI BC 9 TRAN + REC. — FLOYD ENGELS, DAVIS ROAD, COLDEN, NY 14033.

SOME ONE WITH THE INSTRUCTION DATA FOR SUPREME RADIO DIAGNOMETER AAA-1 AND WILLING TO MAKE ME A COPY. I'LL PAY EXTRA FOR A GOOD CLEAR COPY. WRITE GERALD E. WEISS, N-89 W-16229 MAIN STREET, MENOMONEE FALLS, WI 53051.

WANTED: A.K. 9, 10, Radiola SR., Aeriola Sr., Jr. All must be excellent. TADAYUKI YAMADA. 5-2-36 Tamadaira, Hino, Tokyo 191. JAPAN.

SWIRLED COLORED PLASTICS (CATALIN) WANTED. New collector wants bakelites, woods, table tops from 1930- 1950. Will pay $$ or trade used cameras. Harry Poster, Box 1883H, South Hack., NJ 07606. (201) 794-9606.

MICROPHONES of this kind or any nice ones from 1920 to 1940's. Please send photo with prices to 1900-2000 gallery- 8, Rue Bonaparte- 75006 Paris France.

VINTAGE AUDIO TUBES AS 2A3 45's 50's W.E. 104B/D 205B/D 211D/E 242A/C 252A 262A 274A/B 275A 276A 284D 300A/B 301A 310A/328A/348A's OLDER- MESH 347A 349A 350B 351A VT2 VT4B VT25A VT52 D86326 D86327 WELCOMED — SHIGERU MIURA 5-14, 3 CHOME TOKIWADAI, ITABASHI-KU, TOKYO, JAPAN: NEW CONDITION PREFERRED

A. K. BREABOARD PARTS— VERT.- HORZ. COILS- 3 STAGE DETECTOR- AMPLIFIERS, RHEOSTATS- AF TRANSFORMERS AND CONDENSERS IN CANS. Dewitt L. Bills, 5237 Upton Avenue North, Minneapolis, MN 55430.

WANTED: SUPER ZENITH VIII in good or repairable condition. - R. Burick, 7656 Broadview Road, #328, Parma, OH 44134 (216) 886-5923.

WANTED: FARRAND MAGNETIC cone speaker, Browning Drake receiver, Peerless 9" dynamic speaker. R. McNeill, box 472, Yorkton, Sask., Canada S3N 2W4.

WANTED: 1. FREED EISEMANN advertisement material. 2. Cabinet for Radiola III. 3. Operating booklet for Radiola III and IIIA. 4. Radiola IIIA in good to mint condition. Thomas S. Estes, 5555 West Gulfbank #911, Houston, TX 77081.

WANTED: KARLSON SPEAKER ENCLOSURE IN RELATIVELY GOOD CODITION. MARK SKINNER, 1420 ANNA ROAD, PEKIN, IL 61554. (309) 353-1882.

WANTED: BRASS OR FANCY decorated paneled radios, fancy cathedrals, horns in excellent or mint condition, 1 tube sets and WD 11 tubes. Rod Stidham, 4011 South 286th, Auburn, WA 98001.

SCOTT COLLECTOR NEEDS SCOTT 12 two dial parts, escutcheon, knobs and cabinet. Wanted to buy Scott Philharmonic. Denis Yanko, 410 N. Summit, Oconomowoc, WI 53066, (414) 965-3641. Collect after 5:00 cst.

WANTED: VERY GOOD R.C.A. MODEL 103 SPEAKER. WILL PAY $90.00 FOR SPEAKER IF IN MINT CONDITION. LET ME KNOW WHAT YOU HAVE. WOULD LIKETO BUY THE BEST ONE I CAN GET. QUOTE YOUR PRICE AND CONDITION. RON BURTZOS, 915 CRANE, DeKALB, IL 60115.

SCOTT: SCOTT RADIO COLLECTOR wants to purchase Scott Philharmonic, any version. Also, would anyone with a Scott Napier Consoltte, please contact me. I have a question concerning it. Denis Yanko, (414) 964-3641 collect after 5:00 cst., 410 N. Summit, Oconomowoc, WI 53066.

SPHERICAL or TUBULAR AUDION, #5514 transmitting tube. top for Radiola 106 speaker. Early light bulbs. Will buy or trade for tubes. Harbeck, 13408 Westwood Ln., Omaha, NE 68144.

WANTED: 1924 GOLDEN - LEUTZ 9 tube Super Pliodyne. also, any information on Raven Radio 12 tube superhet. Duane Bylund, 5133 West 5400 South SLC, Utah 84118, (801) 967-6987.

WANTED: SOURCE FOR ASTATIC OR RCA CARTRIDGE AND NEEDLE FOR 1950'S RCA PHONO. DAVID HAMMON, 1117 EAST FIRST STREET, LONG BEACH, CA 90802

BURNS PYRALIN SHELL AND RADIOLA UZ-1320 LOUDSPEAKER. DIAL FOR PHILCO 37-61. DALE WILSON, 105 1ST STREET WEST, JORDAN, MN 55352. (612) 492-6338.

WANTED: 1 TUBE SETS, CRYSTAL SETS, GREBE CR EQUIPMENT. RAY GARNER, ROUTE 1, BOX 320, BIG SANDY, TN 38221.

ELECTRO- MEDICAL AND QUACK DEVICES, BOOKS WANTED. INTERESTED IN FLOOR MODELS AND IN DEVICES WITH MULTIPLE KNOBS RESEMBLING RADIOS BUT WHICH ARE NOT RADIOS. I AM ALREADY SATURATED WITH VIOLET RAY DEVICES, SIMPLE 4D BATTERIES. PLEASE DESCRIBE AND PRICE. OLE LINDAN, 1404 DORSH ROAD, CLEVELAND, OH 44121

WANTED W. E. ELECTRON TUBES. I buy most everything the Japanese buy, plus a lot more they don't bother with. I pay more, pay faster and I'm easy to contact. Call or write with anything of interest. Charles Dripps, 4331 Maxson Road, El Monte, CA 91732. (818) 444-7079

WANTED: ANY AND ALL INFORMATION on the "Radio-Pen" facsimile receiver by John V. L. Hogan, August 1934 Radio News. Anyone who owned and operated? D'Arcy Brownrigg, P. O. Box 292, Chelsea, Quebec, Canada, JOX 1NO.

We take liberty herewith to introduce ourselves as being a long establisher importer of antique mechanical music. ALWAYS WANTED: VINTAGE AND ANTIQUE RADIO, HORN SPEAKER, VINTAGE T.V., CATHEDRAL RADIO, GRAMOPHONES, PHONOGRAPHS, POLY PHONE, JUKE BOX, CRYSTAL SETS, MUSICAL BOXES, TYPEWRITER, SEWING MACHINES, TELEPHONES, WESTERN ELECTRIC AUDIO PRODUCTS, AMPLIFIER, DRIVERS, HORN AND SPEAKER SYSTEMS, ANY SPARE PARTS, OLD CATALOGUES AND POSTER, AND ALL OTHER OLD MECHANICAL ITEMS. TOP CASH PRICES PAID, Whole collection or single items. We will travel any where to collect, if you have them in hand. Please contact us with prices and photograph to: MR. PIPAT W. POOLPOL, 9 Soonthon Kosa Road, Klong toey, Bangkok 10110 Thailand. Tel. 2863947.

RCA AND AC A.K. CATHEDRAL in very good to mint. AC A.K. Kiel parlor table with original finish, with or without chassis; 5 Zenith knobs for farm radio, page 191 F.O.S., Jeff Vance, 1819 West Rovey, Phoenix, AZ 85015.

WANTED: PLUG-IN COILS, 4-5-6 PRONG TYPES, WITH GOOD WINDINGS, SINGLES OR SETS. BOB, W6ME, 4178 CHASIN STREET, OCEANSIDE, CA 92056

VU METER for Roberts Reel to Reel Tape Recorder Model 192HT or FT Part No. 54-13. Cecil E. Wallace, 1345 Oak Meadows, Dallas, TX 75232.

ATWATER KENT AK5, AK10, AK12, MAGNAVOX R2, R3, MEAPON CRYSTAL SET. WILL PAY HIGH PRICE IF GOOD CONDITION. 102 KOKUBUHIGHTS, 316-13 YAMAGUCHI, TOKOROZAWA-SHI, SAITAMA-KEN JAPAN.

AAA WANTED: I PAY SAME PRICES FOR all tubes listed by Japanese's ad and also look for Western Electric Amps, Mixers, Consoles, Drivers, Tweeters, Horns, Speakers, Parts, Etc., and Old Tannoy Speakers and McIntosh, Marantz Tube Type Amps. Tel. (818) 576-2642. David, POB 832 Montery Park, CA 91754.

WANTED - WANTED BUYERS (CASH) FOR A 45 YEAR ACCUMULATION AND COLLECTION OF OLD RADIOS, SPEAKERS, TUBES, PARTS, TEST EQUIPMENT, METERS, SERVICE MANUALS AND RADIO PAPER, MAGAZINES, A FEW TRUCK LOADS NO LISTS BUYER TO REMOVE AND TAKE ALONG. KRANTZ, 100 OSAGE AVENUE, SOMERDALE, NJ 08083. (609) 783-0400.

HOWARD MODEL 500, 501 OR 501 DELUXE. Kennedy model 66, such as 266B, 366A, 366B, 766B, 866B. Also 16 tube superhetrodyne deluxe Kennedy. — Tom Peters, P.O. Box 3925, McAllen, TX 78502.

RIDER MANUALS Vol 3, 4, 5, 6, 8, 11, 12, 13, 15. — Volume 8 of Hawkins Electrical Guide, 1st edition 1914 and second edition 1917. — Early (1930's and before) test equipment and laboratory grade meters. —— Herbert Haas, 8516 Thunderbird Lane, Dallas, TX 75238. (214) 341-2708.

WANTED: RESTOREABLE CABINETS— Philco mod. 20, 70, 90 cathedrals. junker sets ok. Ben Boswell, 8607 Stillwood Lane, Austin, TX 78758.

WANTED: MAJESTIC RADIOS IN EXCELLENT CONDITION. Specifically want Majestic models 300, 320, 340 and 360. These were 11 and 12 tube sets manufactured in 1932, 1933 and 1934 by Grigsby-Grunow Company. No junkers please. Ralph Mathis, 108 Adams Avenue, Okolona, MS 38860. Phone (601) 447-2026.

GENERAL ELECTRIC VR11 cartridge for 78 RPM. Advise Jose Fernandez, 208 Eleanor Roosevelt Street, Hato Rey, Puerto Rico 00918.

RADIOLA GRAND, PLUS COLORED AND SWIRLED THICK BAKELITES, CATALINS, ETC. NEED SCROLL FOR SUPREME 589A TUBE TESTER. Riders: "Inside the vacuum tube." Harry Poster, Box 1883H, South Hackensack, NJ 07606 (201) 794-9606.

WANTED: PILOT AC SUPER WASP PANEL IN GOOD CONDITION, OR JUNKER WITH GOOD PANEL. CASH. —— NICK BALLI, 931 FALCONER LANE, ESCONDIDO, CA 92027.

VOLUME ONE, HINTS AND KINKS FOR THE RADIO AMATEUR, BY THE AMERICAN RADIO RELAY LEAGUE. K4LVZ, POB 562144, MIAMI, FL 33256.

JAPANESE WORLD WAR II EQUIPMENT. W.E. THEATRE EQUIPMENT AND TRANSFORMER. RARE TUBE SPEED 295, W.E. 201A. 205P/F #50 TUBES. WILL PAY $25.00 — P & C, TOSHIAKI KURASHIMA, NO. 1 ICHIGAYADAIMACHI SHINJUKU, TOKYO, JAPAN T 162.

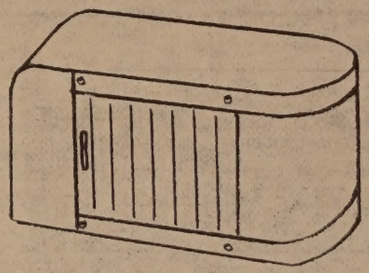
"GREBE PORTABLE, camera-radio portable and other unusual portables... writing historical paper. Also want WWI items, DeForest and fancy horns. Have some radios to sell (send SASE). Mel Rosenthal, 507 S. Maryland Avenue, Wilmington, DE 19804. (302) 994-0874."

— WANTED — HALLICRAFTER "SKY BUDDY" 1936 MODEL 5-T "FLICK OF THE SWITCH" PAGE 225. JACK WALLACE, 5516 GILBOW AVENUE, RIVER OAKS, TX 76114 (817) 732-5189.

B & W COAXIAL ANTENNA changeover relay model 377 or equivalent. Q. R. Galbraith, K5IVC, 4303 Kingsway Drive, Farmington, NM 87401.

NEED PARTS FOR MUSIC MASTER HORN SPEAKER, Nathan Francis, 2020 Hanover Circle, Beaumont, TX 77706.

WANTED: OLD TUBE TYPE CITIZEN BAND RADIOS COMPLETE, WORKING OR NOT. GARY CAPPOEN, RT. 1 BOX 131-A, NEWBERG, OR 97132.



WANTED — DICTOGRAPH SILENT RADIO. HAS REAR PLUG FOR PILLOW SPEAKER. SLIDING DOOR. LIGHT COLOR WOOD. MODEL 1320. ALSO CALLED FADA 263. KRIS GIMMY, 1441 NOTTINGHAM DRIVE, AIKEN, SC 29801. (803) 649-9795.

WANTED- SIX IVORY TABS for Zenith model 6S254. Tabs cover tuning selections, under push buttons. FOR SALE: Large amount of QST books. Will trade or sell very cheap. Also Zenith 5J255 model 6 volt or 110 volt. Russell Schoen, R# 1. Box 224, Clintonville, WI 54929. (715) 823-6744.

CROSLEY SKY BUDDY, Gary Hill, 1507 Ridge Avenue, New Castle, PA 16101 (412) 654-9335.

DECO, COLORED BAKELITES, Catalins wanted. Also need Riders "INSIDE THE VACUUM TUBE", plus chart for my Supreme tube Tester #589A. (I buy, sell and trade used cameras). Harry Poster, box 1883H, South Hack, NJ 07606. (201) 794-9606.

WANTED — RIDERS ONE THRU 10 AND LATER. (NOT 1 TO 5 ABRIDGED) FRED EMERSON, 627 ILLINOIS AVENUE, ELGIN, IL 60120.

NEEDED: A COMPLETE ORIGINAL MAGNETIC "pickup", in as good an original working condition as is possible, for the electronic restoration of a 1929 R.C.A. Victor model no. RE-45 combination radio/ phonograph. David E. Smith, #40 Cortez Drive, Florissant, MO 63031-4121.

BURNS PYRALIN SHELL AND RADIOLA UZ-1320 LOUDSPEAKERS. Plastic dial scale for Philco 37-61. Dale Wilson, 105 1st Street West, Jordan, MN 55352.

WANTD: PILOT AC SUPER WASP WITH COILS, MUST BE IN GOOD CONDITION. CASH OR TRADE ATWATWER KENT BREADBOARD COMPONENTS. BOB HERBIG, W6ME, 4178 CHASIN STREET, OCEANSIDE, CA 92056.

WANTED: WORKING A-B-C BATTERY eliminator and home battery box for Radiola 26. Rod Stidham, 4011 South 286th, Auburn, WA 98001.

ARBORPHONE MODEL 27 COMPLETE IN ANY CONDITION OR CABINET, CHASSIS, PARTS, SCHEMATICS AND INFORMATION FOR USE IN RESTORATION PROJECT. WILL ALSO BUY OTHER MODELS OF ARBORPHONE RECEIVERS. Send details and prices asked to: P. A. Kinzie, 713 East Beale Street, Kingman, AZ 86401.

REPRODUCTION MODEL of original Philco 90 model style. Has cathedral cabinet and AM-FM. Contact W. Pregnall, 774 Woodward Road, Charleston, SC 29407.

WANTED - ZENITH RADIO SIGNS. DISPLAYS, ADVERTISING, ETC. PRE 1935. CALL MONDAY THRU FRIDAY. 8 TO 5. (312) 357-4955.

WANTED: OLD TUBE TYPE CITIZEN BAND radios complete, working or not. Gary Cappoen, Rt. 1 Box 131-A, Newberg, OR 97132.

RCA MODEL 813-K CONSOLE RADIO, Jim Coleman, P. O. Box 2758, Redwood City, CA 94064.

WANTED: TUNING CONDENSER for Philco model 60, also tuning dial and knobs. (715) 823-6744. Russell Schoen, R#1, Box 224, Clintonville, WI 54929.

WANTED: PILOT PARTS— AUDIOS 391 AND 390... E. A. SMITH, 2714 ALDEN, BALTO, MD 21234.

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